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L1	1	09/854619	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:35
L2	25	mobile near web near service$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:40
L3	41446	(mobile wireless) same uddi (discover)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:42
L4	154	(mobile wireless) same (uddi internet adj business$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:43
L5	12	(mobile wireless) same (uddi internet adj business$2) and search near (query term$1 keyword$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:43
L6	5	(mobile wireless) same (uddi internet adj business$2) and search near (query term$1 keyword$1) and profile	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:46
L7	2	(mobile wireless) same (uddi internet adj business$2) and search near (query term$1 keyword$1) and profile and (shortcut abbrieviat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:44
L8	1	09/854627	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:48
L9	0	10/078353	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/02 09:48

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1 Short papers: Inducing shortcuts on a mobile phone interface
Robert Bridle, Eric McCreath
January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**
Publisher: ACM Press
Full text available: pdf(510.18 KB) Additional Information: full citation, abstract, references, index terms

Due to size restrictions, mobile phone user interfaces are often difficult to use[8]. In this short paper, we investigated inducing shortcuts to replace the sequence of actions required to complete common tasks on a mobile phone. In particular, we used mobile phone interaction data to evaluate several methods for inducing shortcuts. We considered the balance between maximising interface efficiency and shortcuts that remained stable and hence predictable.

Keywords: adaptive user-interface, mobile phone interfaces, user oriented machine learning

2 Brave new topics - session 1: multimedia service composition: A taxonomy for multimedia service composition
Klara Nahrstedt, Wolf-Tilo Balke
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(272.55 KB) Additional Information: full citation, abstract, references, index terms

The realization of multimedia systems still heavily relies on building monolithic systems that need to be reengineered for every change in the application and little of which can be reused in subsequent developments even for similar applications. Hence, building complex large scale multimedia systems is still a difficult and challenging problem. Service-based architectures, like researched in the Web community, form a possible solution to this problem: The service-based paradigm decomposes co ...

Keywords: multimedia service composition, service-oriented architectures

3 Session 6: web services II: An open and dynamical service oriented architecture for supporting mobile services

Elena Sanchez-Nielsen, Sandra Martin-Ruiz, Jorge Rodriguez-Pedrianes
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**
Publisher: ACM Press
Full text available: pdf(425.17 KB) Additional Information: full citation, abstract, references, index terms

Mobile services (m-services) play an important role in daily life and work of modern societies. Current service oriented architectures (SOA) are widely used to offer Web Services on wired networks. However, no significant research has been done in m-services field to provide availability service and dynamical discovery to mobile users. Nowadays, mobile devices are characterized by limited resources such as processing power, memory, display screen and connection bandwidth. In this context, we pro ...

Keywords: dynamical m-services invocation, m-services architecture, mobile and ubiquitous computing, service oriented architecture

4 Routing: SHORT: self-healing and optimizing routing techniques for mobile ad hoc networks
Chao Gui, Prasant Mohapatra
June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing**
Publisher: ACM Press
Full text available: pdf(248.88 KB) Additional Information: full citation, abstract, references, index terms

On demand routing protocols provide scalable and cost-effective solutions for packet routing in mobile wireless ad hoc networks. The paths generated by these protocols may deviate far from the optimal because of the lack of knowledge about the global topology and the mobility of nodes. Routing optimality affects network performance and energy consumption, especially when the load is high. In this paper, we define routing optimality using different metrics such as path length, energy consumption ...

Keywords: ad hoc networks, energy-aware SHORT, path-aware SHORT, routing protocol, self-healing and optimizing routing techniques

5 Information handling: Mobile phones and paper documents: evaluating a new approach for capturing microfinance data in rural India
Tapan S. Parikh, Paul Javid, Sasikumar K., Kaushik Ghosh, Kentaro Toyama
April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**
Publisher: ACM Press
Full text available: pdf(781.51 KB) Additional Information: full citation, abstract, references, index terms

CAM is a user interface toolkit that allows a camera-equipped mobile phone to interact with paper documents. It is designed to automate inefficient, paper-intensive information processes in the developing world. In this paper we present a usability evaluation of an application built using CAM for collecting data from microfinance groups in rural India. This application serves an important and immediate need in the microfinance industry. Our quantitative results show that the user interface is ef ...

Keywords: ICT, document processing, microfinance, mobile phone, paper user interface, rural development, visual codes

6 A lightweight mobile platform for Business Services Networks
Zhicong Leo Liang, Raymond K. Wong

March 2005 **Proceedings of the IEEE EEE05 international workshop on Business services networks BSN '05**
Publisher: IEEE Press
Full text available: pdf(248.52 KB) Additional Information: full citation, abstract, references

Business Services Networks (BSNs) facilitate a large variety of business service models and business service automation. While mobile computing is becoming increasingly important, issues of extending BSNs for mobile applications have not been addressed. This paper investigates and experiments with a few issues that will mostly occur for supporting mobile applications through BSNs. In particular, this paper will examine service location discovery, service invocation, and information conversion fo ...

7 A product location framework for mobile commerce environment
Karlene Cousins, Upkar Varshney
July 2001 **Proceedings of the 1st international workshop on Mobile commerce**
Publisher: ACM Press
Full text available: pdf(372.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent advances in wireless networking, mobile technologies, and applications have led to the emergence of mobile commerce. As many of these applications require location tracking of products, users, and services, support for location management has become a major issue in m-commerce. Although some progress has been made in adding location support in business to consumer (B2C) m-commerce, very little work has been done towards addressing these issues in the business to business (B2B) environm ...

Keywords: B2B framework, location management, mobile commerce, wireless networking

8 Efficient handoff rerouting algorithms: a competitive on-line algorithmic approach
Yigal Bejerano, Israel Cidon, Joseph (Seffi) Naor
December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6
Publisher: IEEE Press
Full text available: pdf(785.97 KB) Additional Information: full citation, abstract, references, index terms

This paper considers the design of handoff rerouting algorithms for reducing the overall session cost in personal communication systems (PCS). Most modern communication systems that are used as an infrastructure for PCS networks are based on connection-based technologies. In these systems, the session cost is composed of two components. The setup cost represents the cost associated with the handoff operations, and the hold cost determines the expense related to the use of network resources held ...

Keywords: competitive analysis, connection management, handoff rerouting algorithms, online algorithms, personal communication systems (PCS)

9 Personalizing web sites for mobile users
Corin R. Anderson, Pedro Domingos, Daniel S. Weld
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(385.99 KB) Additional Information: full citation, references, citings, index terms

10 Search and navigation: mobiles and audio: FaThumb: a facet-based interface for

mobile search
Amy K. Karlson, George G. Robertson, Daniel C. Robbins, Mary P. Czerwinski, Greg R. Smith
April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**
Publisher: ACM Press
Full text available: pdf(544.11 KB) Additional Information: full citation, abstract, references, index terms

In this paper we describe a novel approach for searching large data sets from a mobile phone. Existing interfaces for mobile search require keyword text entry and are not suited for browsing. Our alternative uses a hybrid model to de-emphasize tedious keyword entry in favor of iterative data filtering. We propose navigation and selection of hierarchical metadata (facet navigation), with incremental text entry to further narrow the results. We conducted a formative evaluation to understand the re ...

Keywords: Piccolo.NET, faceted metadata, mobile devices, search interfaces, visual interaction, zoomable user interfaces

11 Conceptual modeling and metadata: Using ontologies in personalized mobile applications
Norbert Weißenberg, Agnès Voisard, Rüdiger Gartmann
November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**
Publisher: ACM Press
Full text available: pdf(591.69 KB) Additional Information: full citation, abstract, references, index terms

Mobile devices such as personal digital assistants (PDAs) and mobile phones are in widespread use already today and converging to mobile smart phones. They enable the users to access a wide range of services and information without guiding them through their actual demands. Especially during mass events like the Olympic Games 2008 in Beijing - which was initially the context of our work - a large service space is expected to support all mobile visitors, being athletes, journalists, or spectat ...

Keywords: context, inference, mobile application, ontology, service, situation, user profile

12 Designing applications for handheld devices: Navigating in a mobile XHTML application
Anne Kaikkonen, Virpi Roto
April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(247.55 KB) Additional Information: full citation, abstract, references, citings, index terms

The Internet has been a great success in the fixed world, whereas WAP (Wireless Application Protocol), the mobile Internet, has not fulfilled its promise. However, now the analysts have started to believe in a rise of the mobile Internet again. WAP 2.0, with XHTML Mobile Profile as its standard language, will enable sites to function both in the fixed and wireless worlds. In this paper, we analyze different ways to navigate XHTML sites with mobile phones and base our analysis on two usability ev ...

Keywords: WAP, XHTML mobile profile, mobile internet, mobile phones, navigation, wireless web

13 Mobile surfing and effects of wearables: Minimap: a web page visualization method for mobile phones

Virpi Roto, Andrei Popescu, Antti Koivisto, Elina Vartiainen

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

The Web has become available even on mobile phones, but the current methods to view large pages on small screens have not been highly usable. Current mobile phone browsers reformat Web pages to a single column that fits the screen width. Because not all content is comprehensible in this format, browsers provide a second mode for viewing pages in the same layout as on a PC. We have developed a modeless Web page visualization method called Minimap that shows pages in a modified Original layout. We ...

Keywords: Minimap, field study, information visualization, mobile Web browser, narrow layout, small screen, usability

14 Mobile wireless networks: Consistency challenges of service discovery in mobile ad hoc networks

Christian Frank, Holger Karl

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(156.79 KB) Additional Information: full citation, abstract, references, index terms

Emerging "urban" ad hoc networks resulting from a large number of individual WLAN users challenge the way users could explore and interact with their physical surroundings. Robust and efficient service discovery and routing protocols in such networks are a necessary ingredient. Although a lightweight service discovery proposal integrated with ad hoc routing exists, an implementation and performance evaluation with respect to overhead and correctness have so far been missing.Moreover, the differe ...

Keywords: ad hoc networks, service discovery, ubiquitous computing

15 Browsers: pTHINC: a thin-client architecture for mobile wireless web

Joeng Kim, Ricardo A. Baratto, Jason Nieh

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, index terms

Although web applications are gaining popularity on mobile wireless PDAs, web browsers on these systems can be quite slow and often lack adequate functionality to access many web sites. We have developed pTHINC, a PDA thin-client solution that leverages more powerful servers to run full-function web browsers and other application logic, then sends simple screen updates to the PDA for display. pTHINC uses server-side screen scaling to provide high-fidelity display and seamless mobility across a b ...

Keywords: mobility, pervasive web, remote display, thin-client computing

16 Papers from MC²R open call: Throughput enhanced wireless in local loop (TWiLL): the architecture, protocols, and pricing schemes

B. S. Manoj, Christo Frank D, C. Siva Ram Murthy

January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(1.79 MB) Additional Information: full citation, abstract, references

Traditionally, voice communication over the local loop has been provided by wired systems. In particular, twisted pair has been the standard means of connection for homes and offices for several years. However in the recent past there has been an increased interest in the use of radio access technologies in local loops. Such systems which are now popular for their ease and low cost of installation and maintenance are called Wireless in Local Loop (WLL) systems. Subscribers' demands for greater c ...

Keywords: fairness, multi-hop cellular, network partitions, performance analysis, pricing, real-time communication, wireless in local loop

17 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach
John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali
May 2003 **Proceedings of the 12th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(485.90 KB) Additional Information: full citation, abstract, references, index terms

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

18 Wireless and mobile computing: Declarative user interfaces for handheld devices
Jalal Kawash
January 2004 **Proceedings of the winter international synposium on Information and communication technologies WISICT '04**
Publisher: Trinity College Dublin
Full text available: pdf(160.20 KB) Additional Information: full citation, abstract, references

This paper proposes a new approach to user interfaces for a specific category of Web services. The approach requires developers to "declare" the user interface, using implementation-independent specifications that are downloaded and "interpreted" on the fly. While this allows different Web applications to have their tailored user interfaces, these interfaces are interpreted differently on different devices, taking into consideration the capabilities and limitations of the target devices. This do ...

Keywords: XML, finite state machines, mobile virtual communities, user interfaces

19 Quality of service: Towards context-aware adaptable web services
Markus Keidl, Alfons Kemper
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Publisher: ACM Press
Full text available: pdf(142.73 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a context framework that facilitates the development and deployment of context-aware adaptable Web services. Web services are provided with context information about clients that may be utilized to provide a personalized behavior. Context is extensible with new types of information at any time without any changes to the underlying infrastructure. Context processing is done by Web services, context plugins, or context services. Context plugins and context services pre- a ...

Keywords: automatic context processing, context, extensibility, extensible framework, information services, service platform, web services

20 Web services and performance evaluation: Preserving privacy in web services

Abdelmounaam Rezgui, Mourad Ouzzani, Athman Bouguettaya, Brahim Medjahed
November 2002 **Proceedings of the 4th international workshop on Web information and data management**
Publisher: ACM Press

Full text available: pdf(238.19 KB) Additional Information: full citation, abstract, references, citings, index terms

Web services are increasingly being adopted as a viable means to access Web-based applications. This has been enabled by the tremendous standardization effort to describe, advertise, discover, and invoke Web services. Digital government (DG) is a major application domain for Web services. It aims at improving government-citizen interactions using information and communication technologies. Government agencies collect, store, process, and share information about millions of citizens who have diff ...

Keywords: digital government, mobile agents, privacy, web services

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